



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

THE JOHNS HOPKINS PRESS

BALTIMORE

AMERICAN JOURNAL OF INSANITY.

Board of Editors. Quarterly. 8vo. Volume LXXIII in progress. \$5 per volume (foreign postage 50 cents).

AMERICAN JOURNAL OF MATHEMATICS.

FRANK MORLEY, Editor. Quarterly. 4to. Volume XXXIX in progress. \$5 per volume (foreign postage 50 cents).

AMERICAN JOURNAL OF PHILOLOGY.

B. L. GILDERSLEEVE, Editor, C. W. E. MILLER, Assistant Editor. Quarterly. 8vo. Volume XXXVIII in progress. \$3 per volume (foreign postage 50 cents).

BEITRÄGE ZUR ASSYRIOLOGIE, ETC.

PAUL HAUPT AND FRIEDRICH DELITZSCH, Editors. 8vo. Volume X in progress.

ELLIOTT MONOGRAPHS IN THE ROMANCE LANGUAGES AND LITERATURES.

EDWARD C. ARMSTRONG, Editor. 8vo. \$3 per year. Three numbers have appeared.

HESPERIA.

HERMANN COLLITZ, HENRY WOOD, and JAMES W. BRIGHT, Editors. 8vo. Eleven numbers have appeared.

JOHNS HOPKINS HOSPITAL BULLETIN.

Monthly. 4to. Volume XXVIII in progress. \$2 per year (foreign postage 50 cents).

JOHNS HOPKINS HOSPITAL REPORTS.

8vo. Volume XVIII in progress. \$5 per volume (foreign postage 50 cents).

JOHNS HOPKINS UNIVERSITY CIRCULAR, including the President's Report, Annual Register, and Medical Department Catalogue.

T. R. BALL, Editor. Monthly (except August and September). 8vo. \$1 per year.

JOHNS HOPKINS UNIVERSITY STUDIES IN HISTORICAL AND POLITICAL SCIENCE.

8vo. Volume XXXV in progress. \$3 per volume.

MODERN LANGUAGE NOTES.

J. W. BRIGHT, Editor-in-Chief, M. P. BRUSH, W. KURRELMeyer, G. GRUENBAUM and J. E. SHAW. 8vo. Volume XXXII in progress. \$2 per volume (foreign postage 25 cents).

REPORTS OF MARYLAND GEOLOGICAL SURVEY.

WILLIAM B. CLARK, Editor.

REPRINT OF ECONOMIC TRACTS.

J. H. HOLLANDER, Editor. 8vo. Fourth series in progress. \$2.00.

TERRESTRIAL MAGNETISM AND ATMOSPHERIC ELECTRICITY.

L. A. BAUER, Editor. Quarterly. 8vo. Volume XXII in progress. \$3 per volume (foreign postage 25 cents).

Subscriptions and remittances should be sent to The Johns Hopkins Press, Baltimore, Maryland.

CONTENTS.

	PAGE
Fourier's Constants of Functions of Several Variables. By W. W. KÜSTERMANN,	113
Equations Involving the Partial Derivatives of a Function of a Surface. By CHARLES A. FISCHER,	123
Invariants and Covariants of the Cremona Cubic Surface. By C. P. SOUSLEY,	135
The Lines of Electric Force Due to a Moving Electron. By FRANCIS D. MURNAGHAN,	147
On Inequalities of Certain Types in General Linear Integral Equation Theory. By MARY EVELYN WELLS,	163
A Trigonometrical Sum and the Gibbs' Phenomenon in Fourier's Series. By H. S. CARSLAW,	185
On the Relation between Some Important Notions of Projective and Metrical Differential Geometry. By F. M. MORRISON,	199

The American Journal of Mathematics will appear four times yearly.

The subscription price of the Journal is \$5.00 a volume (foreign postage, 50 cents); single numbers, \$1.50. A few complete sets of the Journal remain on sale.

It is requested that all editorial communications be addressed to the Editor of the American Journal of Mathematics, and all business or financial communications to The Johns Hopkins Press, Baltimore, Md., U. S. A.
